

# Laucks

## Testing Laboratories, Inc.

940 South Harney St., Seattle, Washington 98108 (206) 767-5060 FAX 767-5063

Chemistry Microbiology and Technical Services



# Invoice

Alaskan Copper Works  
ATTN: Raphael  
P.O. Box 3546  
Seattle, WA 98124

INVOICE NO. 12414

DATE: Oct. 18, 1988

PO #M7297

For analysis of WASTE:

10 samples @ 44.00 -	440.00
1 sample @ 40.00	40.00
<b>Total</b>	<b>\$480.00</b>



DATE		DISCOUNT	EXPENSE DISTRIBUTION	
PPICES OK		EXT. OK	ACCOUNT No	AMOUNT
		POSTED		
COSTED REGISTER Nos		COSTED		
		COSTED		
		COSTED		
APPROVAL			ACCT. DEPT APPROVAL	

Net 30 Days

The sole liability of these laboratories for these services, including claims for negligence, strict liability in tort or warranty, shall not exceed the amount of this invoice. Samples may be discarded after analysis unless otherwise requested.

Fed. Empl. ID No. 91-0580783



AKC-0015604

# Laucks

## Testing Laboratories, Inc.

940 South Harney St., Seattle, Washington 98108 (206) 767-5060 FAX 767-5063



### Invoice

Chemistry, Microbiology, and Technical Services

Alaskan Copper Works  
ATTN: Raphael  
P.O. Box 3546  
Seattle, WA 98124

INVOICE NO. 12414

DATE: Oct. 18, 1988

PO #M7297

For analysis of WASTE:

10 samples @ 44.00 -	440.00
1 sample @ 40.00	<u>40.00</u>

Total \$480.00

PROOFREAD ON <u>10-18</u> DATE	
BY ONE CHECKER: <u>Ulin</u> NAME	BY TWO CHECKERS: READ DATA <u>      </u> NAME CHKD RPT <u>      </u> NAME

### Net 30 Days

The sole liability of these laboratories for these services, including claims for negligence, strict liability in tort or warranty, shall not exceed the amount of this invoice. Samples may be discarded after analysis unless otherwise requested.

Fed. Empl. ID No. 91-0580763



AKC-0015605

**FILE**

# Laucks

## Testing Laboratories, Inc.

940 South Harney St., Seattle, Washington 98108 (206) 767-5060 FAX 767-5063

Chemistry, Microbiology, and Technical Services



### Invoice

Alaskan Copper Works  
ATTN: Raphael  
P.O. Box 3546  
Seattle, WA 98124

INVOICE NO. 12414

DATE: Oct. 18, 1988

PO #M7297

For analysis of WASTE:

10 samples @ 44.00 -  
1 sample @ 40.00

440.00  
40.00

Total

\$480.00



#### Net 30 Days

The sole liability of these laboratories for these services, including claims for negligence, strict liability in tort or warranty, shall not exceed the amount of this invoice. Samples may be discarded after analysis unless otherwise requested.

Fed. Empl. ID No. 91-0580763



AKC-0015606



# NORTHWEST LABORATORIES

*of Seattle, Incorporated*

ESTABLISHED 1896

*Technical Services for: Industry, Commerce, Legal Profession & Insurance Industry*



1530 FIRST AVENUE SOUTH

• SEATTLE, WASHINGTON 98134 •

Telephone: (206) 622-0680

Report To: Alaskan Copper & Bras

Date: October 19, 1988

Report On: Asbestos Analysis/Bulk Samples

Lab No.: E 45222

SUBMITTED:

One (1) Bulk Sample/Asbestos Analysis


IDENTIFICATION:

Accoustical Tile  
Old Telephone Booth  
10-17-3200-M7453

ANALYSIS BY POLARIZED LIGHT/DISPERSION STAINING MICROSCOPY:

<u>Sample No.</u>	<u>Asbestos, %</u>	<u>Other Fibrous Materials</u>	<u>Non-Fibrous Materials</u>	<u>Comments</u>
1	<1% Asbestos	Fiberglass Cellulose	Binder Mastic	-----

NORTHWEST LABORATORIES

  
Sam LeBarron  
Director, Analytical Laboratory

wbm

AKC-0015607



# NORTHWEST LABORATORIES

*of Seattle, Incorporated*  
ESTABLISHED 1896



Technical Services for: Industry, Commerce, Legal Profession & Insurance Industry

1530 FIRST AVENUE SOUTH

• SEATTLE, WASHINGTON 98134 •

Telephone: (206) 622-0680

Report To: Alaskan Copper & Bras

Date: October 19, 1988

Report On: Asbestos Analysis/Bulk Samples

Lab No.: E 45222

SUBMITTED:

One (1) Bulk Sample/Asbestos Analysis

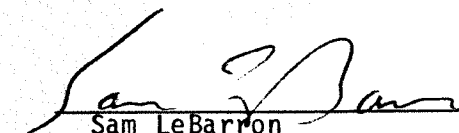
IDENTIFICATION:

Accoustical Tile  
Old Telephone Booth  
10-17-3200-M7453

ANALYSIS BY POLARIZED LIGHT/DISPERSION STAINING MICROSCOPY:

<u>Sample No.</u>	<u>Asbestos, %</u>	<u>Other Fibrous Materials</u>	<u>Non-Fibrous Materials</u>	<u>Comments</u>
1	<1% Asbestos	Fiberglass Cellulose	Binder Mastic	-----

NORTHWEST LABORATORIES

  
Sam LeBarron  
Director, Analytical Laboratory

wbm

# Laucks <sup>80</sup> years

## Testing Laboratories, Inc.

940 South Harney St., Seattle, WA 98108 (206) 767-5060 FAX 767-5063

## Certificate

Chemistry, Microbiology, and Technical Services

CLIENT: Alaskan Copper Works  
P.O. Box 3546  
Seattle, WA 98124  
ATTN: Jim Brown

LABORATORY NO. 12867

DATE: Nov. 9, 1988

PO #M7598

REPORT ON: WATER/ACID

### SAMPLE

IDENTIFICATION: Submitted 10/31/88 and identified as shown:

- 1) M7598 10/4
- 2) M7598 10/6
- 3) M7598 10/11
- 4) M7598 10/13
- 5) M7598 10/18
- 6) M7598 10/20
- 7) M7598 10/25
- 8) M7598 10/27
- 9) M7598 10/28 3600
- 10) M7598 10/28 3200
- 11) M7598 10/28 3600

NOV 23 1988

### parts per million (mg/L)

	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>
Zinc	0.024	0.016	0.016	0.076	0.020	0.018
Chromium	0.52	0.28	0.56	0.54	0.42	0.40
Copper	0.12	0.17	0.080	0.22	0.20	0.082
Nickel	0.27	0.09	0.16	0.54	0.24	0.13



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AKC-0015609

# Laucks

## Testing Laboratories, Inc.

940 South Harney St., Seattle, Washington 98108 (206) 767-5060 FAX 767-5063

Chemistry, Microbiology, and Technical Services



### Invoice

Alaskan Copper Works  
ATTN: Raphael  
P.O. Box 3546  
Seattle, WA 98124

INVOICE NO. 12867

DATE: Nov. 9, 1988

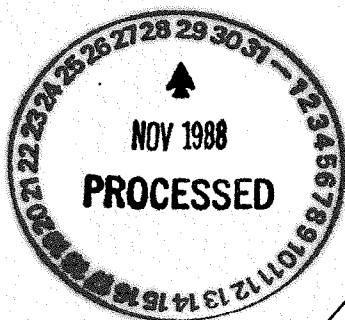
PO #M7598



For analysis of WATER & ACID:

11 samples @ 44.00 -	484.00
1 sample @ 20.00	20.00
1 sample @ 40.00	40.00
	<hr/>

Total \$544.00



Net 30 Days

The sole liability of these laboratories for these services, including claims for negligence, strict liability in tort or warranty, shall not exceed the amount of this invoice. Samples may be discarded after analysis unless otherwise requested.

Fed. Empl. ID No. 91-0580763



AKC-0015610



# NORTHWEST LABORATORIES

*of Seattle, Incorporated*

ESTABLISHED 1896

*Technical Services for: Industry, Commerce, Legal Profession & Insurance Industry*



1530 FIRST AVENUE SOUTH

• SEATTLE, WASHINGTON 98134 •

Telephone: (206) 622-0680

Report To: Alaskan Copper Works

Date: November 17, 1988

Report On: Percentage and Specific Gravity

Lab No.: E 45479

SUBMITTED: Nitric Acid Sample.

IDENTIFICATION:

11-11-3200 M7759

RESULTS:

Specific Gravity - 1.16

Percentage - 17.17

NORTHWEST LABORATORIES

Sam LeBarron

Director, Analytical Laboratory

wbm



## INVOICE

REMITTANCE COPY

**NORTHWEST LABORATORIES**  
*of Seattle, Incorporated*

1530 FIRST AVENUE SOUTH • SEATTLE, WASHINGTON 98134 • (206) 622-0680

Alaskan Copper Works  
P.O. Box 3546  
Seattle, Washington 98124

Attention: Jim Brown

Date November 17, 1988  
Report No. E 45479  
Order No.

IRS No. 91-1004847

*TERMS: Net, 30 days. No statement will be sent unless requested.*

*Past due balances are subject to a service charge of 1½% per month, or if less, the maximum amount permitted by applicable law.*

Testing for Percentage  
and Specific Gravity

\$40.00

Nitric Acid Solution

REMITTANCE  
COPY

Reference:

001-23-03  
wbm

9

SAMPLES DISCARDED WITHIN TWO MONTHS UNLESS OTHERWISE REQUESTED

AKC-0015612

# Laucks <sup>80</sup> years

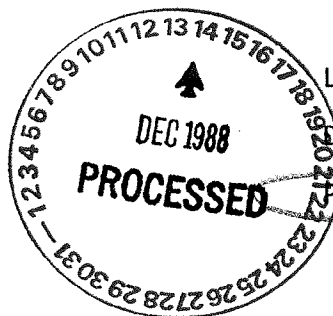
## Testing Laboratories, Inc.

940 South Harney St., Seattle, WA 98108 (206) 767-5060 FAX 767-5063

## Certificate

Chemistry, Microbiology, and Technical Services

CLIENT: Alaskan Copper Works  
P.O. Box 3546  
Seattle, WA 98124  
ATTN: Jim Brown



LABORATORY NO. 13224

DATE: Nov. 21, 1988

PO# M7823

REPORT ON: MATERIAL

### SAMPLE

IDENTIFICATION: Submitted 11/18/88 and identified as shown below:

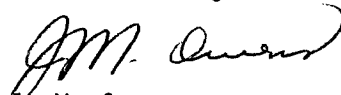
B200M7823 11/18/88

### TESTS PERFORMED AND RESULTS:

	<u>Sample</u>
Specific Gravity at 25°C	1.178
Total Acidity, calculated as % HNO <sub>3</sub> (methyl orange end point)	4.1

Respectfully submitted,

Laucks Testing Laboratories, Inc.

  
G. M. Owens

JMO:emt



This report is submitted for the exclusive use of the person, partnership, or corporation to whom it is addressed. Subsequent use of the name of this company or any member of its staff in connection with the advertising or sale of any product or process will be granted only on contract. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

AKC-0015613

# Laucks <sup>80</sup> YEARS

## Testing Laboratories, Inc.

940 South Harney St., Seattle, WA 98108 (206) 767-5060 FAX 767-5063

## Certificate

Chemistry, Microbiology, and Technical Services

FILE

CLIENT: Alaskan Copper Works  
P.O. Box 3546  
Seattle, WA 98124  
ATTN: Jim Brown

LABORATORY NO. 13236

DATE: Nov. 23, 1988

PO# M7814

REPORT ON: MATERIAL

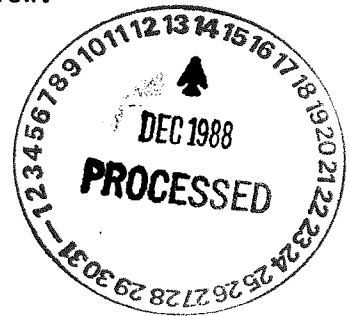
### SAMPLE

IDENTIFICATION: Submitted 11/18/88 and identified as shown below:

ID #11-18-3200-M7814

### TESTS PERFORMED AND RESULTS:

	<u>Sample</u>
Specific Gravity at 25°C	1.186
Total Acidity, calculated as % HNO <sub>3</sub> (methyl orange end point)	5.1



Respectfully submitted,

Laucks Testing Laboratories, Inc.

*J. M. Owens*  
J. M. Owens

JMO:emt



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AKC-0015614

INVOICE

**NORTHWEST LABORATORIES**

*of Seattle, Incorporated*

1530 FIRST AVENUE SOUTH • SEATTLE, WASHINGTON 98134 • (206) 622-0680

FILE

Alaskan Copper Works  
3200 6th Avenue So.  
Seattle, Washington 98134

Date  
Report No.  
Order No.

December 1, 1988  
E 45709  
P.O. M7928

IRS No. 91-1004847

*TERMS: Net, 30 days. No statement will be sent unless requested.*

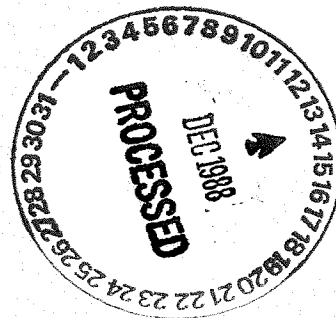
*Past due balances are subject to a service charge of 1½% per month, or if less, the maximum amount permitted by applicable law.*

Specific Gravity & Percentage  
Nitric Acid Sample

\$40.00

Reference:

001-23-03  
wbm



SAMPLES DISCARDED WITHIN TWO MONTHS UNLESS OTHERWISE REQUESTED

AKC-0015615



# NORTHWEST LABORATORIES

*of Seattle, Incorporated*  
ESTABLISHED 1896



*Technical Services for: Industry, Commerce, Legal Profession & Insurance Industry*

1530 FIRST AVENUE SOUTH

• SEATTLE, WASHINGTON 98134 •

Telephone: (206) 622-0680

Report To: Alaskan Copper

Date: December 1, 1988

Report On: Specific Gravity & Percentage

Lab No.: E 45709

SUBMITTED:

Nitric Acid Sample

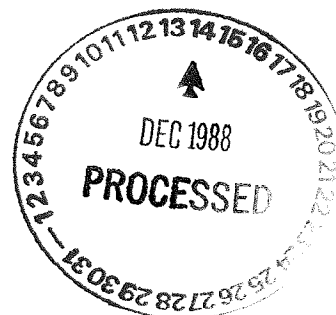
IDENTIFICATION:

11-30-3200 M7928

ANALYSIS:

Specific Gravity  
(by pycnometer) 1.16

Percentage  
(by volume) 17.40



NORTHWEST LABORATORIES

*Sam LeBarron*  
for Sam LeBarron  
Director, Analytical Laboratory

wbm

AKC-0015616

# Laucks <sup>81</sup> years

## Testing Laboratories, Inc.

940 South Harney St., Seattle, WA 98108 (206) 767-5060 FAX 767-5063

## Certificate

Chemistry, Microbiology and Technical Services

CLIENT: Alaskan Copper Works  
P.O. Box 3546  
Seattle, WA 98124  
ATTN: Jim Brown

LABORATORY NO. 13404

DATE: Dec. 6, 1988

PO# M7929

FILE

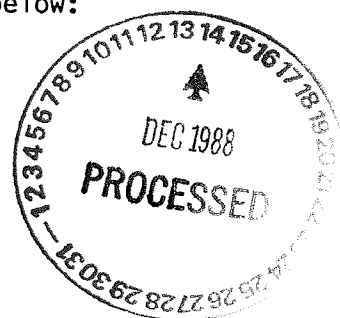
REPORT ON: MATERIAL

SAMPLE

IDENTIFICATION: Submitted 11/30/88 and identified as shown below:

3200M7929 11/30/88

TESTS PERFORMED  
AND RESULTS:



### Sample

Specific Gravity at 25°C

1.194

Total Acidity, calculated as % HNO<sub>3</sub>  
(methyl orange end point)

4.1

Respectfully submitted,

Laucks Testing Laboratories, Inc.

*J. M. Owens*  
J. M. Owens

JMO:emt



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AKC-0015617

INVOICE

**NORTHWEST LABORATORIES**  
*of Seattle, Incorporated*

1530 FIRST AVENUE SOUTH • SEATTLE, WASHINGTON 98134 • (206) 622-0680



- Alaskan Copper Works  
3200 6th Avenue So.  
Seattle, Washington 98134

Date December 12, 1988  
Report No. E 45917  
Order No.

IRS No. 91-1004847

*TERMS: Net, 30 days. No statement will be sent unless requested.*

*Past due balances are subject to a service charge of 1½% per month, or if less, the maximum amount permitted by applicable law.*

Copper Analysis  
Two (2) Samples

\$30.00

Reference:

001-23-03  
wbm

<<9>>

SAMPLES DISCARDED WITHIN TWO MONTHS UNLESS OTHERWISE REQUESTED



# NORTHWEST LABORATORIES

*of Seattle, Incorporated*

ESTABLISHED 1896

*Technical Services for: Industry, Commerce, Legal Profession & Insurance Industry*



1530 FIRST AVENUE SOUTH

• SEATTLE, WASHINGTON 98134 •

Telephone: (206) 622-0680

Report To: Alaskan Copper

Date: December 12, 1988

Report On: Spent Acid Solutions

Lab No.: E 45917

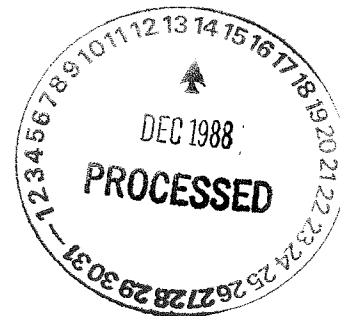
SUBMITTED:

Two (2) Samples for Copper Analysis

IDENTIFICATION:

Sample #1 - Rinse Tank Sample 12-7-3200M 8017


Sample #2 - Acid Tank 12-7-3200M 8016



ANALYSIS:

<u>Sample</u>	<u>Copper, Cu, %</u>
#1	0.009
#2	0.04

NORTHWEST LABORATORIES

  
Sam LeBarron  
Director, Analytical Laboratory

wbm

AKC-0015619

# Laucks <sup>80 years</sup>

## Testing Laboratories, Inc.

940 South Harney St., Seattle, WA 98108 (206) 767-5060 FAX 767-5063

## Certificate

Chemistry, Microbiology, and Technical Services

**FILE** CLIENT: Alaskan Copper Works  
P.O. Box 3546  
Seattle, WA 98124  
ATTN: Jim Brown

LABORATORY NO. 13447

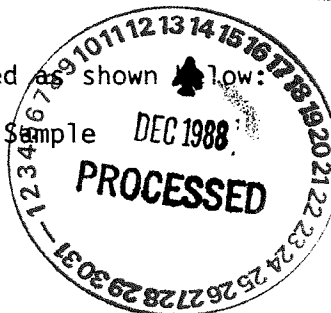
DATE: Dec. 13, 1988

PO# 1117959

REPORT ON: WATER

SAMPLE IDENTIFICATION: Submitted 12/02/88 and identified as shown below:  
3200 M7959 12/01/88 Metro Grab Sample

TESTS PERFORMED  
AND RESULTS:



parts per million (mg/L)

Chromium	1.9
Copper	0.84
Nickel	1.8
Zinc	0.13
Lead	0.11
Silver	0.009
Arsenic	0.011

Respectfully submitted,

Laucks Testing Laboratories, Inc.

*J. M. Owens*  
J. M. Owens

JMO:1aj



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AKC-0015620

# Laucks

## Testing Laboratories, Inc.

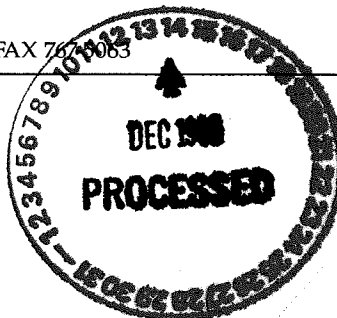
940 South Harney St., Seattle, Washington 98108 (206) 767-5060 FAX 767-5063

Chemistry, Microbiology, and Technical Services



### Invoice

CLIENT: Alaskan Copper Works  
P.O. Box 3546  
Seattle, WA 98124  
ATTN: Jim Brown



INVOICE NO. 13522

DATE: Dec. 13, 1988

PO# 1117984 & 94

For the analysis of LIQUIDS: -----\$84.00

**Net 30 Days**

The sole liability of these laboratories for these services, including claims for negligence, strict liability in tort or warranty, shall not exceed the amount of this invoice. Samples may be discarded after analysis unless otherwise requested.

Fed. Empl. ID No. 91-0580763



AKC-0015621

# Laucks

## Testing Laboratories, Inc.

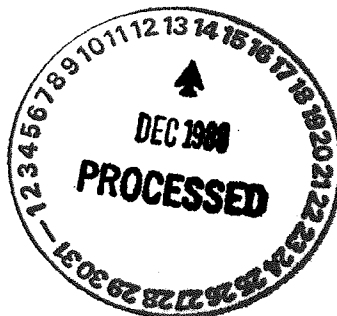
940 South Harney St., Seattle, Washington 98108 (206) 767-5060 FAX 767-5063



### Invoice

Chemistry, Microbiology, and Technical Services

CLIENT: Alaskan Copper Works  
P.O. Box 3546  
Seattle, WA 98124  
ATTN: Jim Brown



INVOICE NO. 13448

DATE: Dec. 13, 1988

For the analysis of WATER: ----- 8 at \$44.00 each ----- \$352.00

#### Net 30 Days

The sole liability of these laboratories for these services, including claims for negligence, strict liability in tort or warranty, shall not exceed the amount of this invoice. Samples may be discarded after analysis unless otherwise requested.

Fed. Empl. ID No. 91-0580763



AKC-0015622